What Is Claimed Is:

1   1.   A method for integrating at least one
2 remote of a microcellular communication system with
3 at least one face of a code division multiple access
4 (CDMA) communication system, said CDMA system being
5 capable of signal advancing, said method comprising
6 the steps of:
7   measuring fiber length and remote power
8 output;
9   interconnecting hardware between said at
10 least one remote and said at least one face;
11   performing calculations using data obtained
12 from said step of measuring to determine how much to
13 advance said CDMA signal;
14   translating said calculations to a database
15 for advancing a signal allowing said at least one
16 remote to communicate with said at least one face;
17 and
18   setting output levels of said CDMA system ,
19 said output levels determined based upon said
20 measurement data and said calculations.

1   2.   The method of claim 1 further
2 comprising the step of testing said method for proper
3 operation.

1   3. The method of claim 2 wherein said

2 step of testing further comprises testing said system

3 at said at least one face and at said at least one

4 remote.

1   4. The method of claim 1 wherein said

2 microcellular communication system further comprises

3 a stand alone microcellular communication system.

1   5. The method of claim 4 wherein said

2 step of interconnecting hardware further comprises

3 the steps of:

4   installing a combiner for each face to be

5 integrated;

6   connecting a meter to said CDMA system for

7 taking output power readings;

8   connecting a transmit cable to each of said

9 combiners;

10   connecting a receive cable to each of said

11 combiners; and

12   terminating said receive cable.

1   6. The method of claim 1 wherein said

2 microcellular communication system further comprises

3 a simulcast microcellular communication system.

1   7. The method of claim 6 wherein said

2 step of interconnecting hardware further comprises

3 the steps of:

4   connecting a transmit cable to said at

5 least one face;

6   connecting a combiner to said transmit

7 cable;

8   connecting said transmit cable to an

9 interface module for said remote;

10   connecting a receive cable to said

11 interface module for said remote;

12   connecting a combiner to said receive

13 cable;

14   connecting an attenuator to said combiner;

15   connecting said attenuator to said receive

16 cable; and

17   connecting said receive cable to said at

18 least one face.

1   8. The method of claim 1 wherein said
2 step of measuring further comprises the steps of:
3   verifying said at least one remote is in
4 normal condition;
5   isolating said at least one face;
6   measuring said fiber length of said at
7 least one remote;
8   measuring said power output of said at
9 least one remote; and
10   recording additional data necessary for
11 said steps of performing calculations and
12 translating.

1   9. The method of claim 8 wherein said
2 step of measuring further comprises the steps of
3 recording said CDMA output power level.

1   10. The method of claim 1 wherein said
2 step of performing calculations further comprises the
3 steps of:
4   calculating propagation delay for a
5 transmit antenna for said at least one remote;
6   calculating propagation delay of a receive
7 antenna for said at least one remote;
8   selecting and recording a lowest value of
9 said propagation delay calculations for both said
10 transmit and said receive antennas;
11   calculating a maximum differential
12 delay of all delay calculations completed for said at
13 least one remote;
14   calculating a sector size;
15   determining a cell search window size;
16   calculating actual input analog composite
17 power;
18   determining total gain for said at least
19 one remote;
20   determining actual gain for said at least
21 one remote;
22   calculating CDMA input power for said at
23 least one remote; and
24   checking power calculations.

1   11. The method of claim 10 wherein for a

2 simulcast CDMA said step of selecting and recording a

3 lowest value of said propagation delay calculations

4 for both said transmit and said receive antennas

5 further comprises selecting a fixed value for said

6 propagation delay for each of said transmit and said

7 receive antennas, said fixed value based on an

8 equipment specification.

1   12. The method of claim 1 wherein said

2 step of translating further comprises the step of

3 updating a database for said at least one remote and

4 said at least one face to be integrated by loading

5 said database with values derived in said steps of

6 calculating and translating to compensate for time

7 delay by advancing said CDMA signal.

1   13. The method of claim 1 wherein said

2 step of setting output levels further comprises the

3 steps of:

4   ensuring output levels are properly set by

5 using values derived in said steps of measuring and

6 performing calculations; and

7   restoring said at least one face to normal

8 service.